

CLAIMS

What is claimed is:

1. An edge sharpening apparatus comprising:

a sharpener body having a first planar face with a first boss extending therefrom, a second planar face which is offset from and substantially parallel to said first planar face and has a second boss extending therefrom, and a window formed therein;

a first sharpening element having a first slot and a first cutting edge, said first sharpening element being releasably secured to said first planar face such that said first boss is received in said first slot and at least a portion of said first cutting edge overlaps said window; and

a second sharpening element having a second slot and a second cutting edge, said second sharpening element being releasably secured to said second planar face such that said second boss is received in said second slot and at least a portion of said second cutting edge overlaps said window, said first and second cutting edges defining a V-shaped opening having a fixed included angle.

2. The edge sharpening apparatus of claim 1 wherein said first sharpening element is slidably supported on said first boss and positionable thereon to provide a fresh portion of said first cutting edge.

3. The edge sharpening apparatus of claim 2 further comprising an adjuster interposed between said sharpener body and said first sharpening element, said adjuster being positionable to slide said first sharpening element relative to the first boss.

4. The edge sharpening apparatus of claim 3 wherein the adjuster comprises a threaded member extending from said sharpener body.

5. The edge sharpening apparatus of claim 2 wherein said second sharpening element is fixedly supported on said second boss and removable therefrom.

6. The edge sharpening apparatus of claim 2 wherein said second sharpening element is slidably supported on said second boss and positionable thereon to provide a fresh portion of said second cutting edge.

7. The edge sharpening apparatus of claim 6 further comprising an adjuster interposed between said sharpener body and said second sharpening element, said adjuster being positionable to slide said second sharpening element relative to said second boss.

8. The edge sharpening apparatus of claim 7 wherein said adjuster comprises a threaded member extending from said sharpener body.

9. The edge sharpening apparatus of claim 1 wherein said first sharpening element is fixedly supported on said first boss and said second sharpening element is fixedly supported on said second boss, said first and second sharpening elements being removable from said sharpener body.

10. The edge sharpening apparatus of claim 1 wherein each of said first cutting edge and said second cutting edge comprise a radial form relief.

11. The edge sharpener apparatus of claim 1 wherein each of said first and second sharpening elements are rectangular.

12. The edge sharpening apparatus of claim 11 wherein each of said first and second sharpening elements have rounded corners.

13. The edge sharpener apparatus of claim 1 wherein each of said first and second sharpening elements are trapezoidal.

14. The edge sharpening apparatus of claim 13 wherein each of said first and second sharpening elements have rounded corners.

15. The edge sharpening apparatus of claim 1 further comprising a handle extending from said sharpener body.

16. The edge sharpening apparatus of claim 15 wherein said handle is releasably securable to a first end of said sharpener body for providing a right-handed apparatus and a second end opposite said first end of said sharpener body for providing a left-handed apparatus.

17. The edge sharpening apparatus of claim 15 wherein said handle has a partially flattened bottom surface formed thereon.

18. The edge sharpening apparatus of claim 1 further comprising a fastener securing a first end of said sharpener body to a bow.

19. The edge sharpening apparatus of claim 18 further comprising a stabilizer extending from a second end of said sharpener body.

20. The edge sharpening apparatus of claim 1 wherein said sharpener body is rectangular in shape.

21. The edge sharpening apparatus of claim 1 wherein said sharpener body is cylindrical in shape with a partially flattened bottom surface formed thereon.

22. The edge sharpening apparatus of claim 1 wherein said fixed included angle is approximately 62°.

23. The edge sharpening apparatus of claim 1 wherein said fixed included angle is approximately 45°.

24. An edge sharpening apparatus comprising:

a sharpener body having a first planar face with a first boss extending therefrom, a second planar face which is offset from and substantially parallel to said first planar face and has a second boss extending therefrom, and a window formed therein;

a first sharpening element having a first slot, a first cutting edge and a second cutting edge, said first sharpening element being releasably secured to said first planar face such that said first boss is received in said first slot, at least a portion of one of said first cutting edge and said second cutting edge overlapping said window; and

a second sharpening element having a second slot and a third cutting edge and a fourth cutting edge, said second sharpening element being releasably secured to said second planar face such that said second boss is received in said second slot and defines a fixed included angle with said first sharpening element, at least a portion of one of said third cutting edge and said fourth cutting edge overlapping said window.

25. The edge sharpening apparatus of claim 24 wherein said first and second sharpening elements are interchangeable such that said first slot receives said second boss and said second slot receives said first boss.

26. The edge sharpening apparatus of claim 24 wherein the edge sharpening apparatus is configurable in a first mode with said first cutting edge and said third cutting edge overlapping said window to define a first included angle and a second mode with said second cutting edge and said fourth cutting edge overlapping said window to define a second included angle.

27. The edge sharpening apparatus of claim 26 wherein said first included angle is about equal to said second included angle.

28. The edge sharpening apparatus of claim 26 wherein said first included angle is greater than said second included angle.

29. The edge sharpening apparatus of claim 28 wherein said first included angle is about 62° and said second included angle is about 45°.

30. The edge sharpening apparatus of claim 24 wherein each of said first cutting edge, said second cutting edge, said third cutting edge and said fourth cutting edge comprise a radial form relief.

31. The edge sharpener apparatus of claim 24 wherein each of said first and second sharpening elements are rectangular.

32. The edge sharpening apparatus of claim 31 wherein each of said first and second sharpening elements have rounded corners.

33. The edge sharpener apparatus of claim 24 wherein each of said first and second sharpening elements are trapezoidal.

34. The edge sharpening apparatus of claim 33 wherein each of said first and second sharpening elements have rounded corners.

35. The edge sharpening apparatus of claim 24 further comprising a handle extending from said sharpener body.

36. The edge sharpening apparatus of claim 35 wherein said handle is releasably securable to a first end of said sharpener body for providing a right-handed apparatus and a second end opposite said first end of said sharpener body for providing a left-handed apparatus.

37. The edge sharpening apparatus of claim 35 wherein said handle has a partially flattened bottom surface formed thereon.

38. The edge sharpening apparatus of claim 24 further comprising a fastener securing a first end of said sharpener body to a bow.

39. The edge sharpening apparatus of claim 38 further comprising a stabilizer extending from a second end of said sharpener body.

40. The edge sharpening apparatus of claim 24 wherein said sharpener body is rectangular in shape.

41. The edge sharpening apparatus of claim 24 wherein said sharpener body is cylindrical in shape with a partially flattened bottom surface formed thereon.